Photograph NCIS-115: From Sta. 3+040/-33 m (approx.), looking NE. Excavation of a 1 m (approx.) sump in the tailings with an excavator from Sta. 3+010 m to 3+030 m (o.s. +27 to +30 m). The bottom of the excavation was frozen.

QA DAILY REPORT

DATE July 26th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 25TH, 2018 – TSF NORTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 20°C, sunny.

2.0 HEALTH AND SAFETY

- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation. Wear a mask in the lab.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- Possible ground instability and rockfalls can happen in the downstream slope of the North Cell Internal Structure, which is not profiled. Workers on foot in the slope and at the toe must be careful.
- A blast is planned at 12:45 at Phaser Pit.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- A lack of rockfill feed is expected for a few days. The deposition points construction uses stockpiled material. Each point consists in a 5x6 m UM rockfill pad. Deposition is planned to begin on August 1st.
- Culverts may need to be installed in the ditch to maintain accesses to the North Cell Internal Structure.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the North Cell of the TSF. This report must be read in

Golder Associés Ltée
7250, rue du Mile End, 3e étage Montréal (Québec) H2R 3A4 Canada T: +1 514 383 0990 +1 514 383 5332

conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for the North Cell Internal Structure

Activity or Area	Comments
Crest	■ Placement of a 2 m thick (approx.) lift of UM rockfill from El. 152 m to El. 154 m (approx.) with a dozer from Sta. 1+863 m to 1+830 m (+14 m to -26 m). The material is of good quality and is well graded.
Upstream	■ Placement of a 0.5 m thick lift of coarse filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+910 m to 1+890 m. ■ Compaction of the 0.5 m lift (approx.) of coarse filter between El. 152 m and 154 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 2+000 m to 1+890 m. ■ Placement of a 0.5 m thick lift of fine filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 2+090 m to 1+890 m. ■ Construction of the deposition points (UM rockfill) at Sta. 1+455 m and 1+985 m.
Downstream	■ Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the rockfill capping with an excavator from Sta. 1+500 m to 1+455 m.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result
FF-421-2018	2018-07-24	2018-07-25	Fine Filter	North Cell Internal Structure (in place) Sta. 2+160/-25 m, El. 154 m	Gradation	Compliant
					Water content	2.66%
FF-422-2018	2018-07-25		Fine Filter	North Cell Internal Structure (in place) Sta. 2+040/-19 m, El. 154 m		
FF-423-2018	2018-07-25		Fine Filter	North Cell Internal Structure (in place) Sta. 2+060/-19 m, El. 154 m		

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph NCIS-116: From Sta. 1+700/+37 m (approx.), looking SE. Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the rockfill capping with an excavator from Sta. 1+500 m to 1+455 m.

Photograph NCIS-117: From Sta. 2+050/-25 m (approx.), looking SW. Placement of a 0.5 m thick lift of fine filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 2+090 m to 1+890 m.

Photograph NCIS-118: From Sta. 1+500/-37 m (approx.), looking S. View of a deposition point.

QA DAILY REPORT

DATE July 27th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 26TH, 2018 – TSF NORTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, sunny.

2.0 HEALTH AND SAFETY

- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation. Wear a mask in the lab.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- A blast is planned at 12:45 at Pit E.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- A culvert will be installed in the ditch at Sta. 1+450 m to rebuild the access to the North Cell Internal Structure over the ditch.
- At the request of AEM, the UM rockfill coming from the pit is used in priority on the deposition points. Rockfill placement on the crest of the dike will resume after the deposition points are completed.
- Haul trucks have trafficked the entire width of the UM rockfill platform at El. 154 m except the downstream berm. Since the downstream berms represents a smaller width than trafficable safely by the compactor, and since no further raise is planned above El. 154 m, it is acceptable not to compact the portion of the UM rockfill platform underneath the downstream berms.

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- Till sieving reject material is used in place of the coarse filter as the protective layer in the ditch excavated in the tailings (see photograph below). This material is considered good quality for this use, and this adjustment will save some coarse filter material.
- The QA Manager noticed boulder nests on the upstream slope of the rockfill around Sta. 1+830 m (see photograph below). Fine material will be mixed in during slope profiling of this section.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the North Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for the North Cell Internal Structure

Activity or Area	Comments
Upstream	■ Construction of the deposition points (UM rockfill) at Sta. 2+220 m, 2+440 m, 2+610 m, 2+790 and 1+725 m. The 0.5 m lift (approx.) of fine filter between El. 152 m and 154 m underneath the deposition points was compacted with a 10-tonne smooth-drum compactor with vibration (4 passes) ■ Compaction of the 0.5 m lift (approx.) of fine filter between El. 150 m and 152 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 1+251 m to 1+240 m.
Downstream	■ Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the rockfill capping with an excavator from Sta. 1+455 m to 1+400 m. ■ Excavation of another 0.5 m in depth in the sump from Sta. 3+010 m to 3+030 m (o.s. +27 to +30 m). ■ Profiling of the slopes of the sump with an excavator to approx. 2H:1V. ■ Placement of a 0.3 m thick (approx.) layer of till sieving reject material on the bottom and on the slopes of the sump.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph NCIS-119: From Sta. 1+430/-22 m (approx.), looking N. Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the rockfill capping with an excavator from Sta. 1+455 m to 1+400 m.

Photograph NCIS-120: From Sta. 1+830/-27 m (approx.), looking NE. View of an accumulation of boulders on the upstream slope of the NCIS.

Photograph NCIS-121: From Sta.3+050/+26 m (approx.), looking NE. Placement of a 0.3 m thick (approx.) layer of till sieving reject material on the bottom and on the slopes of the sump.

QA DAILY REPORT

DATE July 28th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 27TH, 2018 – TSF NORTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, sunny.

2.0 HEALTH AND SAFETY

- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation. Wear a mask in the lab.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- A blast is planned at 12:45 at Phaser Pit.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The first sump dug yesterday was not deep enough due to thawing tailings movement and an excessive thickness of the till sieving reject material layer. The sump was reworked today to gain depth.
- The pipe which crosses the North Cell Internal Structure will not be moved, instead the deposition will be slightly adjusted to avoid raising this section of the dike to El. 154 m.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the North Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for the North Cell Internal Structure

Activity or Area	Comments
Crest	■ Placement of a 2 m thick (approx.) lift of UM rockfill from El. 152 m to El. 154 m (approx.) with a dozer from Sta. 1+830 m to 1+860 m (+8 m to -23 m). The material is of good quality and is well graded. ■ Removal of excess UM rockfill left on the crest after profiling of the upstream slope. The material was pushed in the downstream slope.
Upstream	■ Compaction of the 0.5 m lift (approx.) of fine filter between El. 150 m and 152 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 1+240 m to 1+100 m. ■ Compaction of the 0.5 m lift (approx.) of fine filter between El. 152 m and 154 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 3+141 m to 2+220 m.
Downstream	■ Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the rockfill capping with an excavator from Sta. 1+400 m to 1+380 m. A culvert was installed at Sta. 1+460 m. ■ Corrections to the north sump: removal of approx. 0.5 m of tailing and till sieving reject material on the bottom of the excavation. The erosion protection material was replaced. ■ Excavation of a 1 m (approx.) deep sump (south sump) in the tailings with an excavator from Sta. 3+345 m to 3+365 m (o.s. +24 to +32 m). The bottom of the excavation was frozen. ■ Placement of a 0.3 m thick (approx.) layer of till sieving reject material on the slopes of the south sump.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result
FF-422-2018	2018-07-25	2018-07-27	Fine Filter	North Cell Internal Structure (in place) Sta. 2+040/-19 m, El. 154 m	Gradation	Compliant
					Water content	2.93%
FF-423-2018	2018-07-25		Fine Filter	North Cell Internal Structure (in place) Sta. 2+060/-19 m, El. 154 m	Gradation	Compliant
					Water content	1.90%

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph NCIS-122: From Sta. 1+960/-6 m (approx.), looking W. Placement of a 2 m thick (approx.) lift of UM rockfill from El. 152 m to El. 154 m (approx.) with a dozer from Sta. 1+830 m to 1+860 m (+8 m to -23 m).

Photograph NCIS-123: From Sta. 3+340/+33 m (approx.), looking S. Excavation of a 1 m (approx.) deep sump (south sump) in the tailings with an excavator from Sta. 3+345 m to 3+365 m (o.s. +24 to +32 m). The bottom of the excavation was frozen.

Photograph NCIS-124: From Sta. 3+340/+33 m (approx.), looking S. Placement of a 0.3 m thick (approx.) layer of till sieving reject material on the bottom and on the slopes of the south sump.

Photograph NCIS-125: From Sta. 3+050/+26 m (approx.), looking NE. Corrections to the north sump: removal of approx. 0.5 m of tailing and till sieving reject material on the bottom of the excavation. The erosion protection material was replaced.

Photograph NCIS-126: From Sta. 1+140/-98 m (approx.), looking W. Compaction of the 0.5 m lift (approx.) of fine filter between El. 150 m and 152 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 1+240 m to 1+100 m.

Photograph NCIS-127: From Sta. 1+470/+20 m (approx.), looking SW. View of the culvert installed in the ditch at Sta. 1+460 m.

QA DAILY REPORT

DATE July 29th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 28TH, 2018 – TSF NORTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 10°C, cloudy then sunny.

2.0 HEALTH AND SAFETY

- The rain is an issue, the muddy and very slippery ground causes a high risk of slips and falls. Extra caution must be applied when walking or driving on wet surfaces.
- After the ground dried, dust was again an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- A blast is planned at 12:45 at Phaser Pit.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The QA Manager asked that the ditch be excavated deeper in the southern section on the rockfill capping, as water is ponding around the culvert and does not seem to flow out southwards.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the North Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for the North Cell Internal Structure

Activity or Area	Comments
Crest	■ Placement of a 2 m thick (approx.) lift of UM rockfill from El. 152 m to El. 154 m (approx.) with a dozer from Sta. 1+830 m to 1+660 m (+8 m to -31 m). The material is of good quality and is well graded.
Upstream	■ Profiling of the upstream slope (3H:1V) from El. 152 to 154 m with an excavator from Sta. 1+880 m to 1+780 m. ■ Compaction of the 0.5 m lift (approx.) of fine filter between El. 152 m and 154 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 2+220 m to 1+940 m.
Downstream	■ Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the rockfill capping with an excavator from Sta. 1+380 m to 1+300 m. ■ Excavation of another 0.5 m (approx.) in depth in the south sump with an excavator from Sta. 3+345 m to 3+365 m (o.s. +24 to +32 m). ■ Placement of a 0.3 m thick (approx.) layer of till sieving reject material on the bottom of the south sump.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph NCIS-128: From Sta. 1+680/-42 m (approx.), looking NE. Placement of a 2 m thick (approx.) lift of UM rockfill from El. 152 m to El. 154 m (approx.) with a dozer from Sta. 1+830 m to 1+660 m (+8 m to -31 m) and profiling of the upstream slope (3H:1V) from El. 152 to 154 m with an excavator from Sta. 1+880 m to 1+780 m.

Photograph NCIS-129: From Sta. 2+450/-21 m (approx.), looking S. Compaction of the 0.5 m lift (approx.) of fine filter between El. 152 m and 154 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 2+220 m to 1+940 m.

Photograph NCIS-130: From Sta. 1+446/+16 m (approx.), looking S. Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the rockfill capping with an excavator from Sta. 1+380 m to 1+300 m.

QA DAILY REPORT

DATE July 30th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 29TH, 2018 – TSF NORTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 10°C, cloudy and rainy.

2.0 HEALTH AND SAFETY

- The rain is an issue, the muddy and very slippery ground causes a high risk of slips and falls. Extra caution must be applied when walking or driving on wet surfaces.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- No daily construction meeting was held today, as the SANA foreman and the AEM dike supervisor could not attend.
- The placement of UM rockfill on the North Cell Internal Structure is complete.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the North Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for the North Cell Internal Structure

Activity or Area	Comments
Crest	■ Construction of a UM rockfill ramp at the end of the lift at El. 154 m at Sta. 1+660 m with a loader.
Upstream	■ Profiling of the upstream slope (3H:1V) from El. 152 to 154 m with an excavator from Sta. 1+780 m to 1+660 m. ■ Placement of a 0.5 m thick lift of coarse filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+890 m to 1+826 m. ■ Compaction of the 0.5 m lift (approx.) of coarse filter between El. 152 m and 154 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 1+890 m to 1+826 m. ■ Placement of a 0.5 m thick lift of fine filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+890 m to 1+830 m. ■ Compaction of the 0.5 m lift (approx.) of fine filter between El. 152 m and 154 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 1+940 m to 1+830 m.
Downstream	■ Construction of a UM rockfill access ramp on the tailings to excavate the ditch.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph NCIS-131: From Sta. 1+940/-20 m (approx.), looking W. Compaction of the 0.5 m lift (approx.) of coarse filter between El. 152 m and 154 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 1+890 m to 1+826 m.

Photograph NCIS-132: From Sta. 1+940/-20 m (approx.), looking W. Profiling of the upstream slope (3H:1V) from El. 152 to 154 m with an excavator from Sta. 1+780 m to 1+660 m.

Photograph NCIS-133: From Sta. 1+820/-28 m (approx.), looking W. Placement of a 0.5 m thick lift of coarse filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+890 m to 1+826 m.

QA DAILY REPORT

DATE July 31st 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 30TH, 2018 – TSF NORTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 10°C, cloudy and rainy.

2.0 HEALTH AND SAFETY

- The rain is an issue, the muddy and very slippery ground causes a high risk of slips and falls. Extra caution must be applied when walking or driving on wet surfaces.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- On July 28th, a haul truck hit a pick-up truck parked in its blind spot. It was reiterated to always perform a walkaround inspection of the vehicle before starting the work shift, or resuming work after lunch.
- A blast is planned at 12:45 at Pit E.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The QA Manager reiterated that filter materials must be placed with the excavator in the upstream slope in a way to limit segregation as much as possible.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the North Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for the North Cell Internal Structure

Activity or Area	Comments
Upstream	■ Completion of the profiling of the upstream slope (3H:1V) from El. 152 to 154 m with an excavator from Sta. 1+740 m to 1+640 m. ■ Placement of a 0.5 m thick lift of coarse filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+826 m to 1+660 m. ■ Compaction of the 0.5 m lift (approx.) of coarse filter between El. 152 m and 154 m with a 10-tonne smooth-drum compactor with vibration (4 passes) in the upstream slope from Sta. 1+826 m to 1+660 m. ■ Placement of a 0.5 m thick lift of fine filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+830 m to 1+700 m.
Downstream	■ Construction of a UM rockfill access ramp on the tailings to excavate the ditch.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result
FF-424-2018	2018-07-30		Fine Filter	North Cell Internal Structure (in place) Sta. 1+820/-22, El. 154 m		

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph NCIS-134: From Sta. 1+630/-32 m (approx.), looking NE. Completion of the profiling of the upstream slope (3H:1V) from El. 152 to 154 m with an excavator from Sta. 1+700 m to 1+660 m.

Photograph NCIS-135: From Sta. 1+860/-12 m (approx.), looking SW. Placement of a 0.5 m thick lift of fine filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+830 m to 1+700 m.

QA DAILY REPORT

DATE August 1st 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 31ST, 2018 – TSF NORTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, cloudy.

2.0 HEALTH AND SAFETY

- Dust is an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- A blast is planned at 12:45 at Phaser Pit.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- Teranap liner panels were installed on the deposition points.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the North Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for the North Cell Internal Structure

Activity or Area	Comments
Upstream	■ Placement of a 0.5 m thick lift of fine filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+700 m to 1+660 m.
Downstream	■ Construction of a UM rockfill access ramp on the tailings to excavate the ditch. ■ Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the tailings with an excavator from Sta. 1+300 m to 1+200 m. ■ Placement of a 0.3 m thick (approx.) layer of till sieving reject material on the bottom and on the slopes of the ditch with an excavator from Sta. 1+300 m to 1+200 m.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph NCIS-136: From Sta. 1+800/-33 m (approx.), looking SW. Placement of a 0.5 m thick lift of fine filter in the upstream slope from El. 152 m to 154 m with an excavator from Sta. 1+700 m to 1+660 m.

Photograph NCIS-137: From Sta. 1+380/+14 m (approx.), looking SW. Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the tailings with an excavator from Sta. 1+300 m to 1+200 m.

QA DAILY REPORT

DATE August 2nd 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR AUGUST 1ST, 2018 – TSF NORTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, cloudy and rainy.

2.0 HEALTH AND SAFETY

- The rain is an issue, the muddy and very slippery ground causes a high risk of slips and falls. Extra caution must be applied when walking or driving on wet surfaces.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- A blast is planned at 12:45 at BB Phaser Pit.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The QA and QC personnel will leave the site tomorrow. It is expected that only minor fine filter compaction works and corrections to the south sump will remain to be done. These works will be done tomorrow after the ditch is completed.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the North Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for the North Cell Internal Structure

Activity or Area	Comments
Downstream	■ Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the tailings with an excavator from Sta. 1+200 m to 1+100 m. ■ Placement of a 0.3 m thick (approx.) layer of till sieving reject material on the bottom and on the slopes of the ditch with an excavator from Sta. 1+200 m to 1+100 m.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result
FF-424-2018	2018-07-30	2018-07-01	Fine Filter	North Cell Internal Structure (in place) Sta. 1+820/-22, El. 154 m	Gradation	Slightly too much fines, but still acceptable
					Water content	2.83%

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph NCIS-138: From Sta. 1+365/+15 m (approx.), looking SW. Excavation of a 0.8 m (approx.) deep, 1 m wide shallow ditch in the tailings and placement of a 0.3 m thick (approx.) layer of till sieving reject material on the bottom and on the slopes of the ditch from Sta. 1+200 m to 1+100 m.

QA DAILY REPORT

DATE May 20th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR MAY 19TH, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around -5°C, snowy with strong winds.

2.0 HEALTH AND SAFETY

- Cold weather and ice: apply caution when driving or walking on icy surfaces, wear appropriate clothing.
- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- There was no construction meeting today, due to many participants being unable to attend.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for Saddle Dam 3

Activity or Area	Comments
Upstream	■ Excavation of the LLDPE geomembrane crest anchoring trench with an excavator from Sta. 20+595 m to 20+655 m.

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Activity or Area	Comments
Water management	■ Water is ponding on the first compacted sieved till layer of the upstream toe liner tie-in at approx. Sta. 20+595 m and has frozen.

Table 2: QA Observations for Central Dike

Activity or Area	Comments
None	

5.0 FOUNDATION APPROVAL

No foundation approval was done during the reporting period.

Table 3: Details of the Foundation Approvals

Name	Structure	Sta. and Offset	Date of Approval	Comment

6.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 4 and

Table 5 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 4: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 5: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

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QA DAILY REPORT

DATE May 21st 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR MAY 20TH, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around -8°C, sunny.

2.0 HEALTH AND SAFETY

- Cold weather and ice: apply caution when driving or walking on icy surfaces, wear appropriate clothing.
- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation.
- The JHA for geosynthetics installation was reviewed before the arrival of the Liner Installers. The team are scheduled for SOP training and fit tests on May 21st when they arrive on site.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The LLDPE liner installing equipment will only arrive on site on May 23rd. As a result, the Liner Installers will begin with the geotextile installation only. The QA Manager reminded that some minor correction works still need to be done on SD3 before the upstream slope can be approved for the installation of geosynthetics.
- It was noticed that the sandbags for securing geosynthetics in place are damaged and cannot be used. New sandbags are being prepared.
- All personnel were working on the North Cell Internal Structure today, as a result no work was performed on the South Cell dikes today.

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4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for Saddle Dam 3

Activity or Area	Comments
Water management	■ Water is ponding on the first compacted sieved till layer of the upstream toe liner tie-in at approx. Sta. 20+595 m and has frozen.

Table 2: QA Observations for Central Dike

Activity or Area	Comments
None	

5.0 FOUNDATION APPROVAL

No foundation approval was done during the reporting period.

Table 3: Details of the Foundation Approvals

Name	Structure	Sta. and Offset	Date of Approval	Comment

6.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 4 and

Table 5 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 4: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 5: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

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QA DAILY REPORT

DATE May 22nd 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR MAY 21ST, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around -8°C, cloudy.

2.0 HEALTH AND SAFETY

- Cold weather and ice: apply caution when driving or walking on icy surfaces, wear appropriate clothing.
- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation.
- Material handling risks and procedures was added into the JHA for geosynthetics installation.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The materials and equipment for geosynthetics placement (geotextile rolls, LLDPE liner rolls, excavator) were moved on Central Dike and SD3 in preparation for tomorrow's works. The LLDPE liner rolls are stored on a smooth surface (compacted fine filter in place) covered by a layer of geotextile.
- Minor corrections to do at the bottom of the fine filter on the upstream slope of Central Dike have been identified by the QA Manager (see photograph below). Some fine filter is missing to achieve a smooth slope and transition with the existing liner. It is likely that the combination of the thawing of the fine filter today and the recent cleaning operations using pressurized air accounts for the observed loss of material at the junction with the existing LLDPE liner.
- Efforts will be made to remove the accumulated dust encrusted on the existing LLDPE liner at the junction between Central Dike and SD5, and to keep the liner clean for welding. This should be done over the next days while the geotextile installation starts on the north end of Central Dike.

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4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for Saddle Dam 3

Activity or Area	Comments
Upstream	■ Smoothing of the surface of the fine filter with an excavator on top of the upstream slope from Sta. 20+600 m to 20+780 m.
Water management	■ Water is ponding on the first compacted sieved till layer of the upstream toe liner tie-in at approx. Sta. 20+595 m and is partially frozen.

Table 2: QA Observations for Central Dike

Activity or Area	Comments
Upstream	■ Snow removal in the anchoring trench with an excavator between Sta. 0+170 m and 40+780 m. ■ Final clean-up of the existing LLDPE liner with pressurized air for geosynthetics installation.

5.0 FOUNDATION APPROVAL

No foundation approval was done during the reporting period.

Table 3: Details of the Foundation Approvals

Name	Structure	Sta. and Offset	Date of Approval	Comment

6.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 4 and Table 5 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 4: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 5: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

7.0 PHOTOGRAPH

Photograph CD-1857: From Sta. 0+700/-20 m, looking N. Snow removal in the anchoring trench with an excavator between Sta. 0+170 m and 40+780 m.

Photograph CD-1858: From Sta. 0+970/-45 m, looking S. View of the bottom of the fine filter upstream slope. Some material is missing to achieve a smooth slope.

Photograph SD3-303: From Sta. 20+780/-15 m, looking N. View of a LLDPE liner roll stored on geotextile.

Photograph SD3-304: From Sta. 20+620/-36 m, looking SE. Smoothing of the surface of the fine filter with an excavator on top of the upstream slope from Sta. 20+600 m to 20+780 m.

QA DAILY REPORT

DATE May 23rd 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR MAY 22ND, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around -8°C, cloudy.

2.0 HEALTH AND SAFETY

- Cold weather and ice: apply caution when driving or walking on icy surfaces, wear appropriate clothing.
- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation.
- The JHA was communicated to the Liner Installers.
- It was reiterated that it is unsafe to go in the downstream slope of Central Dike (1.5H:1V) and that surveying in this area can be done with a GPS-equipped excavator.
- There is important heavy equipment coactivity on Central Dike because of geosynthetics installation operations: personnel on foot must make sure to be visible at all time.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- One of the Liner Installers is unable to work and will be replaced by either another ZTG worker, or someone from SANA, over the next days.
- Stéphane Côté, supervisor for ZTG, will also be the QC for liner installation, as was done last year.
- The QA Manager reiterated that the geotextile panels spot-welded with a heat gun must have a minimum overlap of 450 mm.

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- The LLDPE liner installation equipment is expected to arrive on site tomorrow. Until then, the geotextile panels are spot-welded together and secured with sandbags at the bottom of the slope to protect them against the wind. They will be covered by LLDPE liner as soon as possible.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for Saddle Dam 3

Activity or Area	Comments
Water management	■ Water is ponding on the first compacted sieved till layer of the upstream toe liner tie-in at approx. Sta. 20+595 m and is partially frozen.

Table 2: QA Observations for Central Dike

Activity or Area	Comments
Upstream	■ Installation of the geotextile on the upstream slope 3H:1V (SD5 side) to 2H:1V (Central Dike side) between El. 143 m and 145 m from Sta. 40+640 m to 0+830 m. The geotextile surface was inspected and secured in place with sandbags to protect it against the wind. It will be covered with LLDPE liner tomorrow. ■ The geotextile installation was stopped at 12:00 as snowfalls are expected.

5.0 FOUNDATION APPROVAL

No foundation approval was done during the reporting period.

Table 3: Details of the Foundation Approvals

Name	Structure	Sta. and Offset	Date of Approval	Comment

6.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 4 and Table 5 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 4: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 5: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

7.0 PHOTOGRAPH

Photograph CD-1859: From Sta. 40+780/-38 m, looking SW. Installation of the geotextile on the upstream slope 3H:1V (SD5 side) to 2H:1V (Central Dike side) between El. 143 m and 145 m from Sta. 40+640 m to 0+830 m.

QA DAILY REPORT

DATE May 24th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR MAY 23RD, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around -5°C, cloudy.

2.0 HEALTH AND SAFETY

- Cold weather and ice: apply caution when driving or walking on icy surfaces, wear appropriate clothing.
- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation.
- There is important heavy equipment coactivity on Central Dike because of geosynthetics installation operations: personnel on foot must make sure to be visible at all time.
- Frozen LLDPE liner is slippery in the morning: be careful when walking on the liner in the upstream slope.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The geotextile installation was interrupted at 8:30 because of strong winds.
- The LLDPE liner welding equipment has arrived on site. Pre-calibrations were done today and installation should begin tomorrow.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for Saddle Dam 3

Activity or Area	Comments
Water management	■ Water is ponding on the first compacted sieved till layer of the upstream toe liner tie-in at approx. Sta. 20+595 m and is partially frozen.

Table 2: QA Observations for Central Dike

Activity or Area	Comments
Upstream	■ Installation of the geotextile on the upstream slope 2H:1V between El. 143 m and 145 m from Sta. 0+830 m to 0+750 m. The geotextile surface was inspected and secured in place with sandbags to protect it against the wind. It will be covered with LLDPE liner tomorrow. ■ Snow removal on the geotextile in place to prepare for LLDPE liner installation. ■ The geotextile installation was stopped at 8:30 because of strong winds. ■ Pre-calibration of the welding instruments after arrival of the equipment on site. Calibration results met Technical Specifications. Loads at failure in peel and shear were greater than minimum values presented in Table 6-2 from Technical Specifications.

5.0 FOUNDATION APPROVAL

No foundation approval was done during the reporting period.

Table 3: Details of the Foundation Approvals

Name	Structure	Sta. and Offset	Date of Approval	Comment

6.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 4 and Table 5 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 4: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 5: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

7.0 PHOTOGRAPH

Photograph CD-1860: From Sta. 0+790/-26 m, looking N. Installation of the geotextile on the upstream slope 2H:1V between El. 143 m and 145 m from Sta. 0+830 m to 0+750 m.

QA DAILY REPORT

DATE May 25th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR MAY 24TH, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 0°C, cloudy to sunny with strong winds.

2.0 HEALTH AND SAFETY

- Cold weather and ice: apply caution when driving or walking on icy surfaces, wear appropriate clothing.
- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation.
- There is important heavy equipment coactivity on Central Dike because of geosynthetics installation operations: personnel on foot must make sure to be visible at all time.
- Frozen LLDPE liner is slippery in the morning: be careful when walking on the liner in the upstream slope.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- It was pointed out by AEM that the machine used for calibrations of the welding equipment does not have a calibration certificate on site. AEM has requested this certificate from ZTG.
- The width of Central Dike next to the south access ramp (between Sta. 0+950 m and 0+975 m) is 0.6 m less than specified in the design. The 1.5H:1V slope is however correct. Given that this minor difference causes neither a stability issue nor a circulation issue on the crest, it was decided with AEM to leave it as is, and to document this unconformity in the as-built report. This geometrical anomaly would be difficult to correct in the current configuration, however it would be easily corrected should a raise of Central Dike above El. 145 m be built.

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4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA observations for Saddle Dam 3

Activity or Area	Comments
Water management	■ Water is ponding on the first compacted sieved till layer of the upstream toe liner tie-in at approx. Sta. 20+595 m and is partially frozen.

Table 2: QA Observations for Central Dike

Activity or Area	Comments
Geotextile and LLDPE liner installation	■ AM and PM calibration results met Technical Specifications. Loads at failure in peel and shear were greater than minimum values presented in Table 6-2 from Technical Specifications. ■ Installation of the LLDPE liner on the upstream slope 3H:1V (SD5 side) to 2H:1V (Central Dike side) between El. 143 m and 145 m from Sta. 40+680 m to 0+950 m (panel numbers 802 to 817). The LLDPE was free of fold and hole. Seam tests (air channel tests) were carried out under the supervision of the QA Engineer and results met Technical Specifications. ■ The total fusion seam length is about 173 m. The total extrusion fillet seam length is about 98 m. ■ Vacuum box tests were performed from Sta. 40+680 m to 0+950 m. All leaks identified have been marked and repaired. ■ The location of one destructive test (Destructive test #1) was selected at Sta. 0+960 m (seam between panels 814 and 815). It will be tested tomorrow. ■ Backfilling of the geosynthetics tie-in from Sta. 40+680 m to 0+950 m. The material has not been compacted yet.

Table 3: Details of the Destructive Testing and Repairs

Name	Structure	Station	Seam	Comment
Destructive test #1	Central Dike	0+960 m	Between panels 814 and 815	To be sampled and tested on May 25th

5.0 FOUNDATION APPROVAL

No foundation approval was done during the reporting period.

Table 4: Details of the Foundation Approvals

Name	Structure	Sta. and Offset	Date of Approval	Comment

6.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 5 and Table 6 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 5: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 6: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result